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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,881	11/25/2003	Chang-Hung Lee	5234-0169PUS1	1691
2292 7590 09/26/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAMINER ZHONG, JUN FEI	
			ART UNIT 2623	PAPER NUMBER
			NOTIFICATION DATE 09/26/2007	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/722,881	Applicant(s) LEE ET AL.	
	Examiner Jun Fei Zhong	Art Unit 2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>04/01/2005</u> | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 04/01/2005. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 4 and 5 recites the limitation "the input multimedia signals". There is insufficient antecedent basis for this limitation in the claim.

5. Claim 9 recites the limitation "the method of claim 1". Claim 1 is not a method claim. Claim 9 appeared to depend on claim 7.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Callway et al. (Pub # US 2003/00275517 A1).

As to claim 1, Callway discloses a multimedia signal transmitting apparatus (e.g., unit 100; Fig. 1) for processing at least one multimedia signal according to at least one compression method, the apparatus comprising:

a receiving/transferring module (e.g., video decoder 106) for receiving the multimedia signal (e.g., video stream 118) and transferring the multimedia signal to a corresponding first digital multimedia signal and outputting the first digital multimedia signal (e.g., video decoder 106 sends decoded video 126 to frame buffer 114) (see paragraph 0019);

a rate measuring module (e.g., data encoder and wireless transmitter 108) for measuring a first transmitting rate corresponding to the first digital multimedia signal outputted from the receiving/transferring module, then getting a first transmitting rate (e.g., based on the encoder is used, wireless transmitter using different transmitting rate) (see paragraph 0024, 0029);

a processing module (e.g., data encoder 110) receiving the first digital multimedia signals and selecting a compression method by a predetermined transmitting rate and the first transmitting rate outputted from the rate measuring

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module; and combining all output digital signals of the processing module as a second digital multimedia signal (e.g., data decoder 110 recompress the video and transmit out as frames 145) (see paragraph 0022);

a transmitting module (e.g., wireless transmitter 108; Fig. 1), transmitting the second digital multimedia signal transmitted from the processing module by the predetermined transmitting rate (see paragraph 0023-0024).

As to claim 7, it contains the limitations of claim 1 and is analyzed as previously discussed with respect to claim 1 above.

As to claim 2, Callway discloses the apparatus of claim 1, wherein a wireless protocol selected by the transmitting module is from a group of IEEE802.11 a, IEEE802.11b, IEEE802.11g, and Home RF (see paragraph 0024).

As to claim 3, Callway discloses the apparatus of claim 1, wherein the compression method are selected from a group of MP3, MPEG-1, MPEG-2, MPEG-4, MPEG-7, and MPEG-21 (e.g., MPEG 2 and MPEG 4) (see paragraph 0024).

As to claim 4, Callway discloses the apparatus of claim 1, wherein the input multimedia signals comprise at least one analog multimedia signal (e.g., analog decoder for decoding analog signals and storing in frame buffer 114) (see paragraph 0019).

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As to claim 5, Callway discloses the apparatus of claim 1, wherein the input multimedia signal comprise at least one digital multimedia signal and at least one analog multimedia signal selectively (e.g., port 136 for receiving decoded analog signal, multiplexing circuit 140 for receiving digital signals) (see paragraph 0019-0020).

As to claim 6, Callway discloses the apparatus of claim 1, further comprising an infrared transmitting module for converting the second digital multimedia signal to an infrared and transmitting the infrared (see paragraph 0015).

As to claims 8-12, they contain the limitations of claims 2-6 and are analyzed as previously discussed with respect to claims 2-6 above.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Callway et al. in view of Laksono (Pub # US 2006/0080707 A1).

As to claim 13, Callway discloses a multimedia signal transmitting apparatus (e.g., unit 100; Fig. 1) for transmitting an output signal in a predetermined rate, the apparatus comprising:

a receiving/transferring module for receiving (e.g., video decoder 106) a first multimedia signal (e.g., video stream 118 from DVD) and a second multimedia signal (e.g., video stream 118 from cable link) and transferring both signals into a first digital multimedia signal and a second digital multimedia signal, outputting both signals (e.g., video decoder 106 sends decoded video 126 to frame buffer 114) (see paragraph 0019, 0034);

a rate measuring module (e.g., data encoder 110 and wireless transmitter 108) for measuring a first transmitting rate corresponding to the first digital multimedia signal and a second transmitting rate corresponding to the second digital multimedia signal (e.g., based on the encoder is used, wireless transmitter using different transmitting rate, such as MPEG-4 (750K bits/s) streams using Bluetooth transmitter, MPEG-2 (5M bits/s) using a IEEE 802.11 transmitter) (see paragraph 0024, 0029);

a processing module (e.g., data encoder 110) receiving the first digital multimedia signals, compressing the first digital multimedia signal by a first compression method, compressed the first digital multimedia signal as the output signal, wherein selecting the first compression method by the first transmitting rate, wherein the output signal rate is less than the predetermined transmitting rate (e.g., data decoder 110 recompress the video and transmit out as frames 145) (see paragraph 0022, 0029);

a transmitting module (e.g., wireless transmitter 108; Fig. 1), transmitting the output signal by the predetermined transmitting rate (see paragraph 0023-0024).

Callway does not specifically disclose combining the first and second multimedia signals as the output signal.

Laksono discloses combining plurality multimedia signals as the output signal (e.g., channel mixer 342 converts each channel data into one data stream) (see paragraph 0148, 0152; Fig. 5 and 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide combining plurality multimedia signals in one stream as taught by Laksono to the wireless transmitter of Callway because an in-home communication network is established that allows multiple client devices to have independent access to multimedia sources without requiring traditional receiving and/or transmitting equipment associated with independent access to such multimedia sources (see paragraph 0077).

As to claim 14, Callway discloses the apparatus of claim 13, the transmitting module transmitting the output signal by wireless broadcast (e.g., IEEE 802.11 standard) (see paragraph 0024).

As to claim 15, Callway discloses the apparatus of claim 13, wherein the first compression method and the second compression method are selected from a group of

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MP3, MPEG-1, MPEG-2, MPEG-4, MPEG-7, and MPEG-21 (e.g., MPEG 2 and MPEG 4) (see paragraph 0024).

As to claim 16, Callway discloses the apparatus of claim 13, wherein the first compression method and the second compression method are AV signals (e.g., MPEG 2 and MPEG 4 which are AV signals) (see paragraph 0024).

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hutchings (Pub # US 2003/0030720 A1) is cited to teach transmitting video over wireless link.

Oka (Pub # US 2005/0060750 A1) is cited to teach transmitting multimedia over wireless link.

Hicks, III (Pub # US 2004/0255326 A1) is cited to teach transmitting multimedia over wireless link.

Inquiries

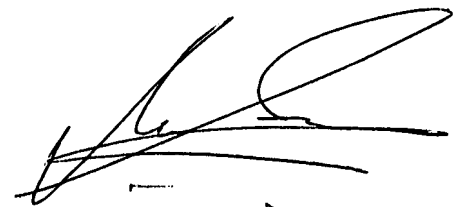
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jun Fei Zhong whose telephone number is 571-270-1708. The examiner can normally be reached on Mon-Fri, 7:30-5:00 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on 571-272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JFZ
09/14/2007

A handwritten signature in black ink, appearing to read 'Vivek Srivastava', with a large, stylized loop at the end.

VIVEK SRIVASTAVA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600